WHAT IS CLAIMED IS:

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1. A routing control device to which transfer devices for performing transfer control processing are connected, comprising:

routing control information generating means that generates routing control information collectively based on the routing information transmitted from said transfer devices.

- 2. The routing control device according to claim 1 wherein said routing control information generating means generates a routing control table as said routing control information.
- 3. The routing control device according to claim 1 wherein said routing control information generating means generates routing control information for all of the transfer devices that are physically connected therewith and that have transmitted said routing information thereto.
- 4. The routing control device according to claim
 1 wherein said routing information includes at least
 adjacency information between transfer devices and
 metric information of the links which connect the
 transfer devices,

and at least when the topology information in the network is changed, the routing control information

generating means generates new routing control information based on the changed information.

5. The routing control device according to claim 1, in cases where a plurality of transfer routes exist whose metric is the minimum value between said transfer devices, said routing control information generating means grasps the routing information of all the plurality of transfer routes.

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6. A method of generating routing control information in a routing control device to which transfer devices for performing routing control processing are connected,

wherein routing control information generating means recognizes the number of these transfer devices based on routing information transmitted from said transfer devices, generates an initial routing control table for the transfer devices whose number has thus been recognized, then, for each said transfer device, calculates metrics to all the other transfer devices, and generates a routing control table using the minimum value and the identifiers of adjacent transfer devices on all the routes whose said metric is the minimum value.